

WE CLAIM:

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- ✓ 1. Essentially pure recombinant hPTH.
- ✓ 2. Substantially pure synthetic hPTH.
- ✓ 3. Substantially pure recombinant hPTH.
- 5 4. The substantially pure recombinant hPTH of claim 3 wherein said hPTH is at least about 90% pure.
5. The substantially pure recombinant hPTH of claim 4 wherein said hPTH is at least about 95% pure.
- 10 6. Substantially pure recombinant hPTH which is resistant to degradation by a KEX2 like proteolytic enzyme.
- 2 7. A substantially pure hPTH derivative which is both intact and exhibits native biological activity.
- 15 2 8. A substantially pure hPTH derivative which is resistant to degradation by a KEX2 like proteolytic enzyme and which is both intact and exhibits native biological activity.
- 20 3 9. A genetically engineered microorganism capable of expressing an intact hPTH.
- 3 10. The microorganism of claim 9 wherein said organism is yeast.
- 25 11. A substantially pure intact hPTH, obtained by expression and secretion of said hPTH from a genetically engineered microorganism.
- 2 12. The substantially pure intact hPTH of claim 11, wherein said hPTH is resistant to degradation by a KEX2 like proteolytic enzyme.
- 30 13. The substantially pure intact hPTH of claim 11, which is obtained by a purification step after expression and secretion.
- 2 14. The substantially pure intact hPTH of claim 12, which is obtained by a purification step after expression and secretion.
- 35 15. The substantially pure intact hPTH of claim 11, wherein said genetically engineered microorganism is yeast.

2 ✓ 16. A substantially pure intact hPTH derivative, obtained by expression and secretion of said hPTH from a genetically engineered microorganism.

5 17. The substantially pure intact hPTH derivative of claim 16, wherein said hPTH is resistant to degradation by a KEX2 like proteolytic enzyme.

10 18. The substantially pure intact hPTH derivative of claim 16, which is obtained by a purification step after expression and secretion.

15 19. The substantially pure intact hPTH derivative of claim 17, which is obtained by a purification step after expression and secretion.

20. The substantially pure intact hPTH of claim 16, wherein said genetically engineered microorganism is yeast.

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